

IN THE SPECIFICATION

[0071] A sample of the catalyst is ground to -100 mesh, purged under vacuum overnight, then under nitrogen for one hour, and heated under 2 vol.% H₂S/98 vol.% H₂ for two hours at 150 °C, two hours at 250 °C and three hours at 380 °C, then nitrogen overnight at 380 °C. The sample is cooled to room temperature, purged under vacuum for one hour and NO is flowed over the sample at room temperature for two hours. The sample is flushed with nitrogen for one hour, vacuum for one hour and nitrogen is introduced to fill the sample chamber. The sample chamber is sealed, then moved to an inert atmosphere glove box for infrared (IR) analysis. The Active Site Index (ASI) is calculated by dividing the height of the peak at about ~~1716~~1852 cm⁻¹ (believed to correspond to the promoted molybdenum sites) by the height of the peak at about ~~1802~~1716 cm⁻¹ (believed to correspond to the unpromoted molybdenum sites).